

TIER TWO REPORT

TIER TWO EMERGENCY AND HAZARDOUS CHEMICAL INVENTORY



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Michigan SARA Title III
Program

January 2007

WHAT IS THE TIER TWO REPORT?

- A report required under SARA Title III Section 312 of
- Hazardous substances at a facility that are above the threshold,
- Submitted annually to state and local officials, and
- Made available to the public upon request.

2

TIER TWO REPORT

Tier Two

WHO MUST REPORT?

- The owner or operator of a facility
- If required under OSHA to prepare or have available MSDSs for hazardous substances present at the facility,
- If exemptions do not apply,
- *And IF* the threshold amount or more of a hazardous substance was present at the facility at any time during the past calendar year.

3

TIER TWO

OWNER OR OPERATOR

Situation:

Big Manufacturing Facility is owned and operated by BMF Inc.

BMF contracted with Little Asphalt Co to pave all their parking lots.

4

TIER TWO REPORT

TIER TWO

OWNER OR OPERATOR

Who should report the asphalt?

- Little Asphalt Co that **operates** the equipment? or
- BMF that **owns** the property?

5

TIER TWO

HAZARDOUS SUBSTANCES

- Hazardous Substances = all substances for which **OSHA requires an MSDS**.
- There is NO LIST of these "**OSHA**" hazardous substances.

6

TIER TWO REPORT

TIER TWO

HAZARDOUS SUBSTANCES

1. OSHA defines hazardous substance as any substance that is a physical hazard or a health hazard.
2. OSHA requires that MSDSs be maintained for each hazardous substance.

7

TIER TWO

HAZARDOUS SUBSTANCES

3. Water can have an MSDS, but it is not required by OSHA.
4. OSHA does not require an MSDS for Hazardous Waste that is subject to RCRA.

8

TIER TWO REPORT

Tier Two

EXEMPTIONS

Some OSHA hazardous substances do not have to be reported on the Tier Two report.

➔ Pg. 3-2 in Guidebook

“WHAT CHEMICALS ARE EXCLUDED”

9

Tier Two

EXEMPTIONS

Any substance present as a **solid** in any **manufactured item** to the extent **exposure** to the substance does not occur under normal conditions of use.

Situation:

A facility purchases **sheet metal** to manufacture its final product. MSDS is required. **Is it exempt?**

10

TIER TWO REPORT

Tier Two

EXEMPTIONS

Example: Sheet Metal

Sheet metal **as purchased** is a manufactured item. There is no potential for exposure to the solid metal.

Sheet metal **in process** is no longer a manufactured item.



11

Tier Two

EXEMPTIONS

Example: Sheet Metal

Is there a potential for exposure when the sheet metal is in process?

- Bend
- Sheer
- Grind
- File
- Braze
- Weld
- Cut with torch



TIER TWO REPORT

Tier Two

EXEMPTIONS

Example: Sheet Metal

Sheet metal in storage is exempt because it is a solid manufactured item and there is no potential for exposure.

Sheet metal in process might be subject.

If the process results in a potential for exposure, include the weight of the **entire sheet** in process in the threshold determination.

13

Tier Two

EXEMPTIONS

Tier Two Exemptions do **NOT** apply to:

- Sections 302 & 303 : Emergency Planning Requirements
- Section 304 : Hazardous Substance Release Notifications

14

TIER TWO REPORT

TIER TWO

THRESHOLD

The amount on site at any given time
in storage and in process.

- Threshold for "OSHA" **hazardous substances** = **10,000 pounds**.

Gallons must be converted to pounds.

Pg. 3-2

15

GALLONS TO POUNDS

FORMULA FOR CONVERSION

Specific Gravity (Relative Density)
from MSDS

X

Weight of Water (8.34 lbs per gal)

=

Pounds per gallon of substance

16

TIER TWO REPORT

GALLONS TO POUNDS CONVERSION

TEST YOUR UNDERSTANDING

2000 gallon tank of gasoline

Does it meet the threshold?

From MSDS (Pg. 6-19):

Specific gravity = 0.72 – 0.75

17

GALLONS TO POUNDS

CONVERSION ANSWER

1. Calculate lb/gal of gasoline:

2. Maximum tank capacity =

3. Total weight of gasoline =

18

TIER TWO REPORT

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THRESHOLD

RETAIL GAS STATION Thresholds

- gasoline = 75,000 gallons if all stored in compliant USTs
- diesel fuel = 100,000 gallons if all stored in compliant USTs

UST=underground storage tank

19

TIER TWO

THRESHOLD

Threshold for Extremely Hazardous Substances (EHS) = the lower of:

- 500 pounds or
- threshold planning quantity (TPQ)

EHSs and TPQs are listed

20

TIER TWO REPORT

TIER TWO

EXTREMELY HAZARDOUS SUBSTANCES (EHS)

Aggregate all occurrences of an EHS to determine if threshold is met.

Pure form + mixture **components***
= total EHS

* If $\geq 1\%$ of mixture, or $\geq 0.1\%$ if carcinogen

21

TIER TWO

EXTREMELY HAZARDOUS SUBSTANCES (EHS)

EXAMPLE

Sulfuric Acid

EHS = yes/no?

TPQ = ____

Tier Two reporting threshold = ____

22

TIER TWO REPORT

TIER TWO

EXTREMELY HAZARDOUS SUBSTANCES (EHS)

SULFURIC ACID IN INVENTORY

- 6 fork lifts with large **lead-acid batteries**
- 55 gal drum pure **Sulfuric Acid**

Total lbs Sulfuric Acid = ?

23

TIER TWO

EXTREMELY HAZARDOUS SUBSTANCES (EHS)

55 gallon drum of pure sulfuric acid

Specific gravity (from MSDS) = 1.84

X

8.34 lb/gal (weight of water)

=

_____ lb/gal sulfuric acid

55 gal x _____ lb/gal = _____ **lbs** sulfuric acid

24

TIER TWO REPORT

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EXTREMELY HAZARDOUS SUBSTANCES (EHS)

Lead-acid Batteries

Approximate Calculation based on
total battery weight

- lead \cong 2/3 battery weight
- battery acid \cong 1/3 battery weight
- Sulfuric Acid \cong 1/3 battery acid weight

25

TIER TWO

EXTREMELY HAZARDOUS SUBSTANCES (EHS)

- 6 Batteries
- Each Battery Weighs 600 pounds
- How many pounds of Sulfuric Acid are in the batteries?

26

TIER TWO REPORT

TIER TWO

EXTREMELY HAZARDOUS SUBSTANCES (EHS)

SULFURIC ACID IN BATTERIES

Total weight of batteries=

Battery Acid \cong

Sulfuric Acid \cong

27

TIER TWO

EXTREMELY HAZARDOUS SUBSTANCES (EHS)

TOTAL SULFURIC ACID

_____ lbs in the batteries
+ _____ lbs pure
_____ lbs

28

TIER TWO REPORT

TIER TWO

EXTREMELY HAZARDOUS
SUBSTANCES (EHS)

Required Reporting for
1244 lbs of Sulfuric Acid?

Tier Two -

- Because \geq _____

Emergency Planning Notification
(Section 302)

- Because \geq _____

29

TIER TWO

THRESHOLD

The threshold for reporting in
response to requests is zero

Requests can be made by the
SERC, LEPC, Fire Dept with
jurisdiction over facility

30

TIER TWO REPORT

Tier Two

RECAP...

- The owner or operator reports
- hazardous substances according to OSHA
- if exemptions do not apply,
- *and IF* the threshold amount is ever on site.

31

Tier Two

RECAP...

- OSHA Hazardous Substance threshold = 10,000 pounds
- Extremely Hazardous Substance threshold = 500 pounds or TPQ (whichever is lower)
- Retail Gas Stations are special ...
- So are Requests ...

32

TIER TWO REPORT

Tier Two

TEST YOUR UNDERSTANDING

What is the Tier Two reporting threshold for

- Sulfuric Acid?
- Distilled Water?
- Potassium Cyanide?
- Paint?

33

Tier Two

REPORT DUE DATES

Tier Two due **MARCH 1ST** annually.

See **Pg. 1-1** for all SARA Title III report due dates.

If a report is **requested** by the LEPC, fire dept, or SERC, you have **30 DAYS** to submit the report.

34

TIER TWO REPORT

TIER TWO REPORT FORMATS

ONLINE or PAPER

THE NEW DATABASE REQUIRES NEW INFORMATION TO HELP EMERGENCY PLANNERS.

Diskette, Email attachment, Old paper form cannot be accepted.

35

TIER TWO REPORT FORMATS

New information required:

LEPC

Fire Department

Facility Phone Number

Mailing Address

Latitude-Longitude (online only)

Email address (online only)

Actual amount of chemical

36

TIER TWO REPORT

TIER TWO REPORT FORMATS

New information allowed:

- Mixture components
- More than 6 locations (online only)
- Additional emergency contacts
- Additional phone numbers (online only)
- Electronic Attachments (online only)

37

TIER TWO REPORT FORMATS

Access to the ONLINE program and the new PAPER form:

www.michigan.gov/deqsara

- ➡ Hazardous Chemical Inventory link
- ➡ Tier Two Report link

38

TIER TWO REPORT

TIER TWO REPORT PAPER

New PAPER form available as a pdf
or in Word.

New paper report EXAMPLE: [Pg. 3-9](#)

39

EXAMPLE

Page 1 of 4 pages

Tier Two EMERGENCY AND HAZARDOUS CHEMICAL INVENTORY	Facility Identification				Owner/Operator														
	Name: <u>Wily's Widgets</u> MI SARA ID: <u>1002</u>				Name: <u>Widget World</u> Phone: <u>312-555-1212</u>														
	Street: <u>333 S Capitol</u>				Street: <u>77 W Jackson Blvd</u>														
	City: <u>Any Town</u> County: <u>Ingham</u> Zip: <u>49909-1234</u>				City: <u>Tinsetown</u> State: <u>IL</u> Zip: <u>60604</u>														
	LEPC: <u>Ingham Co LEPC</u> Fire Department: <u>Delhi Twp FD</u>				Country: _____														
	SIC Code: <u>3795</u> Facility Phone: <u>517-555-0000</u>				Emergency Contact (1 contact required)														
	Mailing Address				Name: <u>Billy Wily</u> Title: <u>Plant Supervisor</u>														
	Name 1: <u>Wily's Widgets</u>				Phone: <u>517-555-1234 x14</u> 24hr Phone: <u>888-555-3456</u>														
	Name 2: <u>Attn: Environmental Manager</u>				Name: <u>Joe Gofar</u> Title: <u>Environmental Manager</u>														
	Street 1: <u>333 S Capitol</u>				Phone: <u>517-555-1234 x14</u> 24hr Phone: <u>517-555-6789</u>														
Street 2: <u>Any Town</u>				Name: _____ Title: _____															
City: <u>Any Town</u> State: <u>MI</u> Zip: <u>49909-1234</u> Country: _____				Phone: _____ 24hr Phone: _____															
<p><i>Important: Read all instructions before completing form</i> Reporting period from January 1 to December 31, 2006.</p>																			
Chemical Description		Physical and Health Hazards		Inventory		Storage Codes and Locations (Non-Confidential)													
CAS #/A: _____ Trade Secret: <input type="checkbox"/>		<input type="checkbox"/> PHS <input type="checkbox"/> Sudden Release of Pressure		1,200 Max Daily Amount in pounds		R 1 4 Forfeit batteries in warehouse & mtg bldg													
Chem. Name: <u>BATTERY ACID</u>		<input checked="" type="checkbox"/> Reactivity		0 3 Max Amount Code															
Check all that apply: <input type="checkbox"/> Pure <input type="checkbox"/> Mix <input type="checkbox"/> Solid <input type="checkbox"/> Liquid <input type="checkbox"/> Gas <input type="checkbox"/> EHS		<input checked="" type="checkbox"/> Immediate (Acute)		1,200 Avg. Daily Amount in pounds															
EHS Name: <u>SULFURIC ACID</u>		<input checked="" type="checkbox"/> Delayed (Chronic)		0 3 Ave Amount Code															
				2 6 5 Days On site															
<p>*Significant Mixture Components</p> <table border="1"> <tr> <td>CAS: 7664-9399</td> <td>Chem. Name: <u>SULFURIC ACID</u></td> <td>_____%</td> <td>EHS: <input checked="" type="checkbox"/></td> </tr> <tr> <td>CAS: _____</td> <td>Chem. Name: _____</td> <td>_____%</td> <td>EHS: <input type="checkbox"/></td> </tr> <tr> <td>CAS: _____</td> <td>Chem. Name: _____</td> <td>_____%</td> <td>EHS: <input type="checkbox"/></td> </tr> </table>								CAS: 7664-9399	Chem. Name: <u>SULFURIC ACID</u>	_____%	EHS: <input checked="" type="checkbox"/>	CAS: _____	Chem. Name: _____	_____%	EHS: <input type="checkbox"/>	CAS: _____	Chem. Name: _____	_____%	EHS: <input type="checkbox"/>
CAS: 7664-9399	Chem. Name: <u>SULFURIC ACID</u>	_____%	EHS: <input checked="" type="checkbox"/>																
CAS: _____	Chem. Name: _____	_____%	EHS: <input type="checkbox"/>																
CAS: _____	Chem. Name: _____	_____%	EHS: <input type="checkbox"/>																
<p>Certification (Read and sign after completing all sections)</p> <p>I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages [1] through [4], and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.</p> <p>Owner/Operator OR owner/operator's authorized representative:</p> <p><u>Joe Gofar</u> Environmental Manager <u>10 Jan 2007</u> Print Name Print Title Signature Date signed</p>						<p>Optional Attachments</p> <p><input type="checkbox"/> Site plan</p> <p><input type="checkbox"/> List of site coordinate abbreviations</p> <p><input type="checkbox"/> Description of dikes and other safeguard measures</p>													
<p>Authority: Michigan Department of Environmental Quality, SARA Title III Program</p> <p style="text-align: right;">EQP 3518 (12/06)</p>																			

TIER TWO REPORT

EXAMPLE

Page 4 of 4 pages

Tier Two EMERGENCY AND HAZARDOUS CHEMICAL INVENTORY	Facility Identification				Owner/Operator			
	Name <u>Willy's Widgets</u>		MI SARA ID <u>1002</u>		Name <u>Widget World</u>		Phone <u>312-555-1212</u>	
	Street <u>233 S Capitol</u>				Street <u>77 W Jackson Blvd</u>			
	City <u>AnyTown</u>		County <u>Ingham</u>		City <u>Tinsetown</u>		State <u>IL</u> Zip <u>60604</u>	
	LEPC <u>Ingham Co LEPC</u>		Fire Department <u>Delhi Twp FD</u>		Country			
Specific Information by Chemical	SIC Code <u>3795</u>		Facility Phone <u>517-555-0000</u>					
	Important: Read all instructions before completing form				Reporting period from January 1 to December 31, 2006			
Confidential Location Information Sheet								
CAS Number		Chemical Name		Container Type	Pressure	Temp	Storage Codes and Locations (Confidential) Chemical Locations	
7664-93-9		SULFURIC ACID		E	1	4	55 GAL DRUM - STORE RM, W SIDE IN WAREHOUSE	
Certification (Read and sign after completing all sections) I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages [1] through [4], and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. Owner/Operator OR owner/operator's authorized representative:								
Joe Goffe Print Name		Environmental Manager Print Title		Signature		19 Jan 2007 Date signed		Optional Attachments <input checked="" type="checkbox"/> Site plan <input type="checkbox"/> List of site coordinate abbreviations <input type="checkbox"/> Description of dikes and other safeguard measures
Authority: Michigan Department of Environmental Quality, SARA Title III Program								

EQP 3519 (12/06)

TIER TWO REPORT ONLINE

ONLINE

TIER II MANAGER™

Disclaimer: Michigan has requested changes to TIER II MANAGER™ that do not appear in these screen shots, but that will appear in the online program.

TIER TWO REPORT

ONLINE REPORTING

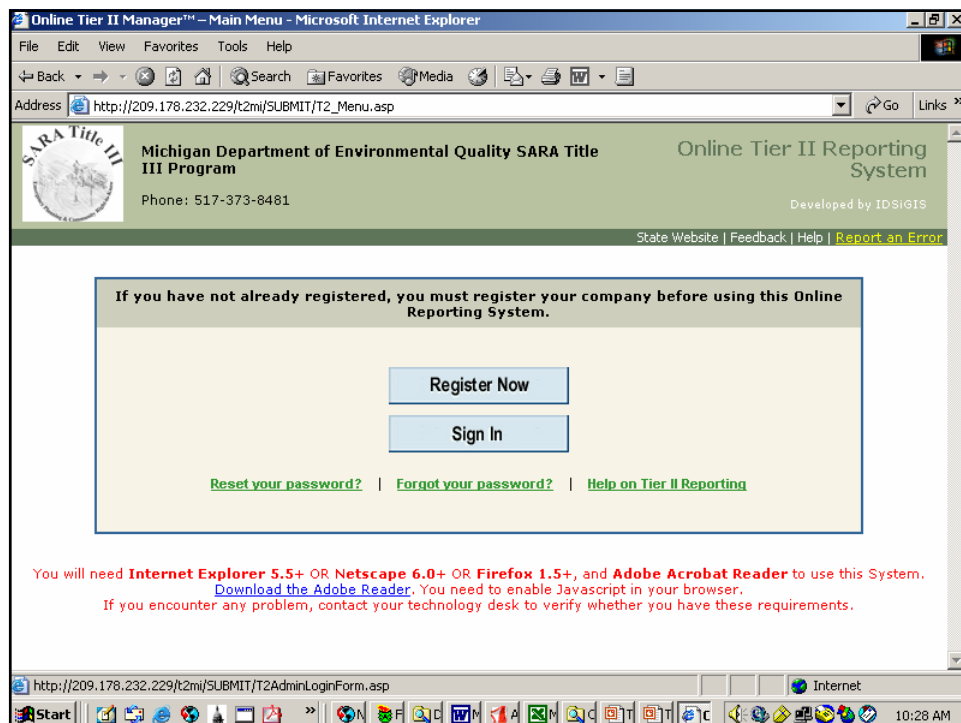
The first time you log in:

REGISTER NOW if your facility has never submitted a Tier Two report.

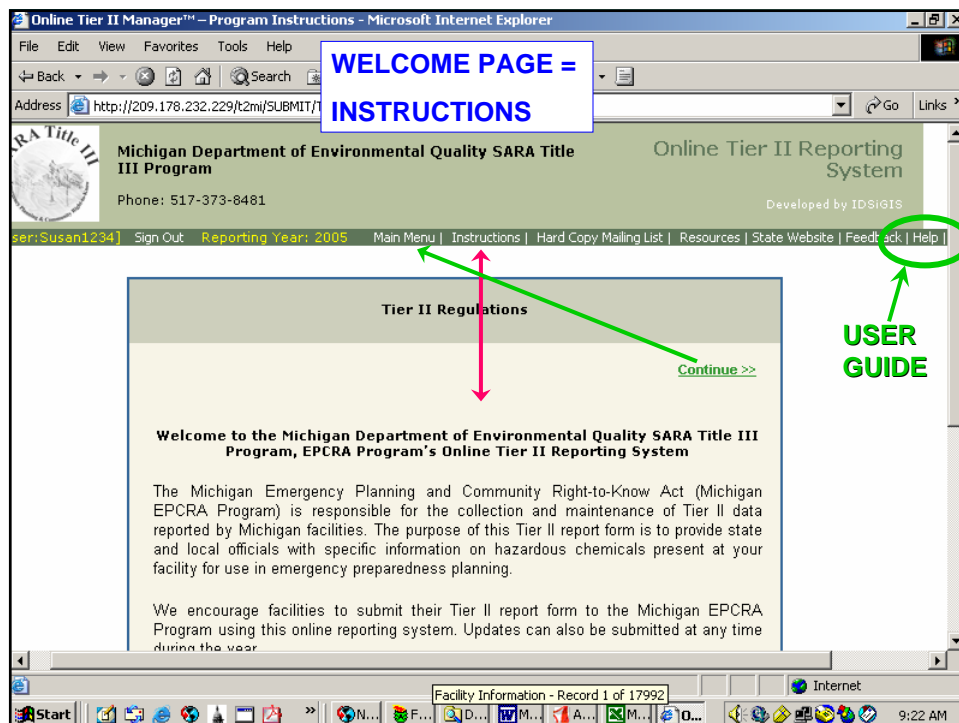
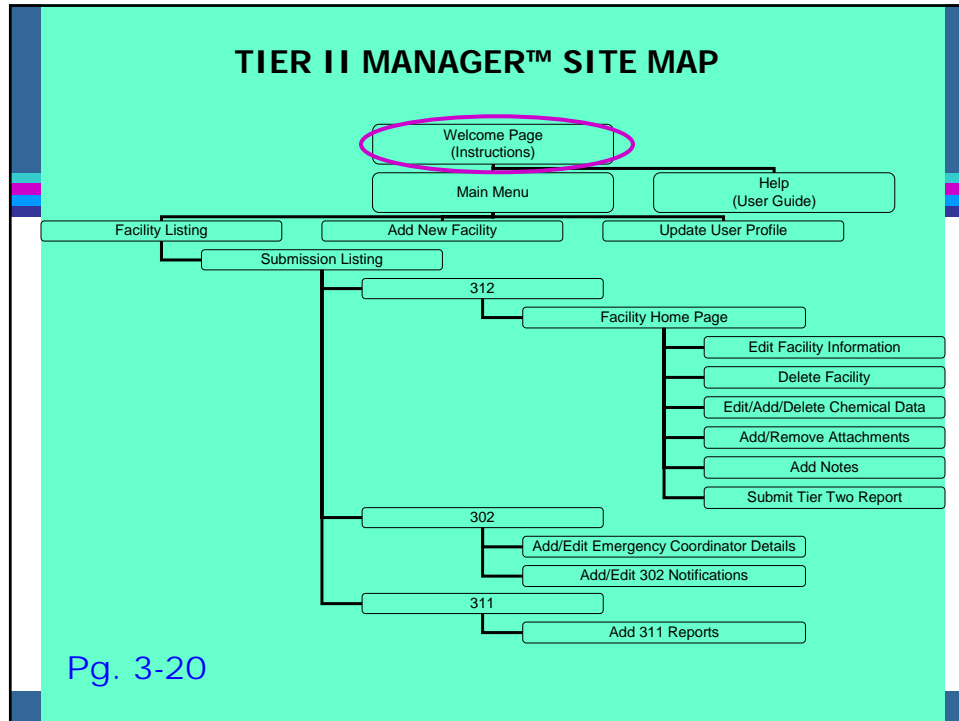
SIGN IN if you have received a username and password from us.

If you have reported in the past but did not get a username and password – Call us!

43



TIER TWO REPORT



TIER TWO REPORT

Online Tier II Manager™ - Data Entry Menu - Microsoft Internet Explorer

File Edit View Favorites

Back Forward Stop Address http://209.178.1.1

[User: Susan1234] Sign Out Reporting Year: 2005 Main Menu | Instructions | Hard Copy Mailing List | Resources | State Website | Feedback | Help

MAIN MENU

LIST OF FACILITIES ASSIGNED TO USER

Main Menu → **Facility List**

[Add a New Facility](#) | [Update User Profile](#) | [Help on Tier II Reporting](#)

The following facilities are registered under this username. You can update Tier II information by clicking on the Facility Name. If you want to preview the most current data entered, click on the Current Data icon across from each Facility Name.

☒ - Report is submitted. ☐ - Report is not submitted.

All A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Other

[1] Page 1 of 1 (Total Results:3)

FID	Corporate Name	Facility/Site Name	Street Address	Current Data	Annual Submission Status(2005)	Certification Status 302	Certification Status 311
4	Canadian National Railways	cnr saginaw terminal	2205 N. MICHIGAN, Saginaw		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	HB Fuller Company	Grand Rapids ASC	2727 Kinney NW, Grand Rapids		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-	Verizon		100 Main Street		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Start | Internet 9:31 AM

Online Tier II Manager™ - Tier II Submission List - Microsoft Internet Explorer

File Edit View Favorites

Back Forward Stop Address http://209.178.1.1

[User: Susan1234] Sign Out FID: 4 Reporting Year: 2005 Main Menu | Instructions | Hard Copy Mailing List | Resources | State Website | Feedback | Help

TOP OF SUBMISSIONS LISTING PAGE -

CLICK "EDIT" UNDER 312 TO GET TO FACILITY HOME PAGE

Submissions Listing for cnr saginaw terminal (ID: 4)

312 (Tier II)

Shown below is a listing of all Tier II Report submissions. Click on the reporting year to edit the Report for that year. The link in the Reporting Year column will be enabled if you can edit the data for that year.

Reporting Year	Submission Class	Signed By	Signed Date	Submission Status	Tier II	Submission Type	Export to Tier II Submit
2006 [Edit]				Not Started			
2005 [Edit] [Close]	Annual	john submit, emergency coordinator	10/23/2006 11:04:02 AM	Pending Admin Approval		Online	

[Click here](#) to request an edit for a Previous Reporting Year.

302 Reports

javascript:PreviewT2('4','890239126','2005','_ARCHIVE','5');

Start | Internet 9:36 AM

TIER TWO REPORT

Online Tier II Manager™ - Show Facility Tree - Microsoft Internet Explorer

Address: http://209.178.232.229/submit/T2_Edit_Facility.asp?Valid=QryFromFacTree&Fid=4

CLICK "EDIT FACILITY" TO VIEW/EDIT GENERAL FACILITY DETAILS

Facility Home Page for cnr saginaw terminal (ID:4)

Reporting Year: 2006

cnr saginaw terminal, Canadian National Railways
2205 N. MICHIGAN
Saginaw, MI 48602
Phone: 989-338-5555

[312 \(Tier II\)](#) | [Submissions Listing](#) | [302](#) | [311](#)

312 (Tier II)

Last Update: 11/6/2006 2:34:45 PM
Last Tier II Submission:

Tier II Submissions

[Click here](#) to start/change your Tier II Submission for this year.

You have not made any submissions for the year 2006.

Chemicals:

Click on table header to sort and filter selections.

Page 1 of 1 (Total Results:5)

ID	CAS	Chemical Name(Click to View MSDS)	EHS	Exceeds TPQ	Edit	Delete
8	7664-41-7	AMMONIA (ANHYDROUS)	<input checked="" type="checkbox"/>	Yes	Edit	Delete

Done Internet 9:49 AM

Online Tier II Manager™ - Edit Facility - Microsoft Internet Explorer

Address: http://209.178.232.229/submit/T2_Edit_Facility.asp?Valid=QryFromFacTree&Fid=4

[User:Susan1234] Sign Out FID:4 Reporting Year: 2006 Main Menu | Instructions | Hard Copy Mailing List | Resources | State Website | Feedback

STEP 1: EDIT FACILITY DETAILS

All red fields are required.

Facility Physical Location (Number:4)

Corporate Name: Canadian National Railways

Facility Name: cnr saginaw terminal

Facility Street: 2205 N. MICHIGAN City: Saginaw

County: EATON

LEPC: EATON Fire Department: Delta Township FD

State: Michigan Zip Code: 48602

Facility Phone: 9893385555 Fax Number:

Web:

Facility Email: cnr@rail.com Retype Email: cnr@rail.com

Latitude: 43.437442 Longitude: 83.949288

Latitude and Longitude must be in Decimal Degrees.

Owner/Operator Information

If you enter an address outside the City field.

Name: Canadian National Railways

Mail Address: 555 Railroad v

City: toronto

Zip Code: 2y48k5

Phone: 4445553399

Facility Identification Information

SIC Code: 4011

TRIFID:

EIN (Tax ID Number):

Lat-Long coordinates

Done Internet 9:56 AM

TIER TWO REPORT

New form has some of the additional information required in online report.					
Facility Identification					
Name	Willy's Widgets			MI SARA ID	1002
Street	333 S Capitol				
City	AnyTown	County	Ingham	Zip	48909-1234
LEPC	Ingham Co LEPC		Fire Department	Delhi Twp FD	
SIC Code	3795		Facility Phone	517-555-0000	
Mailing Address					
Name 1	Willy's Widgets				
Name 2	Attn: Environmental Manager				
Street 1	333 S Capitol				
Street 2	PO Box 1234				
City	AnyTown	State	MI	Zip	48909-1234 Country
Instructions before completing form			Reporting period from January 1 to December 31, 2		
Physical and					

New form has some of the additional information allowed in online report.			
Owner/Operator			
Name	Widget World		Phone 312-555-1212
Street	77 W Jackson Blvd		
City	Tinseltown	State IL	Zip 60604
Country			
Emergency Contact (1 contact required) (2 contacts recommended)			
Name	Billy Willy		Title Plant Supervisor
Phone	517-555-1234 x14	24Hr.Phone	989-555-2468
Name	Joe Goler		Title Environmental Manager
Phone	517-555-1234 x 23	24Hr.Phone	517-555-6789
Name			Title
Phone			24Hr.Phone
006			

TIER TWO REPORT

Online Tier II Manager™ - Show Facility Tree - Microsoft Internet Explorer

FACILITY HOME PAGE HAS TIER TWO CHEMICALS LISTING

Address: http://209.178.232.229/t2mi/SUBMIT/T2_ShowFCLTree.asp?FID=4&backyear=2006

Facility Home Page for cnr saginaw terminal (ID:4)

Reporting Year: 2006

cnr saginaw terminal, Canadian National Railways
2205 N. MICHIGAN
Saginaw, MI 48602
Phone: 989-338-5555

312 (Tier II) | Submissions Listing | 302 | 311

312 (Tier II)

Last Update: 11/6/2006 2:34:45 PM
Last Tier II Submission:

Tier II Submissions

Click [here](#) to start/change your Tier II Submission for this year.

You have not made any submissions for the year 2006.

Chemicals:

Click on table header to sort and filter selections.

Page 1 of 1 (Total Results:5)

ID	CAS	Chemical Name(Click to View MSDS)	EHS	Exceeds TPQ	Edit	Delete
8	7664-41-7	AMMONIA (ANHYDROUS)	<input checked="" type="checkbox"/>	Yes	Edit	Delete

Online Tier II Manager™ - Show Facility Tree - Microsoft Internet Explorer

MAKE CHANGES FOR NEW REPORT YEAR

Address: http://209.178.232.229/t2mi/SUBMIT/T2_ShowFCLTree.asp?FID=4&backyear=2006

Last Update: 11/6/2006 2:34:45 PM
Last Tier II Submission:

Tier II Submissions

Click [here](#) to start/change your Tier II Submission for this year.

You have not made any submissions for the year 2006.

Chemicals:

Click on table header to sort and filter selections.

MSDS ATTACHED

Page 1 of 1 (Total Results:5)

ID	CAS	Chemical Name(Click to View MSDS)	EHS	Exceeds TPQ	Edit	Delete
8	7664-41-7	AMMONIA (ANHYDROUS)	<input checked="" type="checkbox"/>	Yes	Edit	Delete
9	74-98-6	PROPANE	<input type="checkbox"/>	No	Edit	Delete
10	N/A	BATTERY ACID	<input checked="" type="checkbox"/>	Yes	Edit	Delete
11	N/A	SLUDGE	<input checked="" type="checkbox"/>	Yes	Edit	Delete
27	N/A	CHEM12	<input type="checkbox"/>	No	Edit	Delete

Rows per page: 10

TIER TWO REPORT

Online Tier II Manager™ - Edit Chemical - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://209.178.232.229/t2mi/SUBMIT/T2_Edit_Chemical.asp?fid=4&ChemID=11&cp=TREE

[User: Susan1234] Sign Out FID: 4 Reporting Year: 2006 Main Menu Instructions Hard Copy Mailing List Resources State Website Feed

EDIT: CHEMICAL DESCRIPTION AND STORAGE LOCATION

All red fields are required.

Chemical Description	Physical and Health Hazards	Inventory	Storage Codes & Locations
CAS Number: <input type="text" value="N/A"/> Search by CAS / Chemical Name Chemical Name: <input type="text" value="SLUDGE"/> Trade Secret: <input type="checkbox"/> EHS <input type="checkbox"/> EHS Name: <input type="text"/> Add mixture components Check all that apply: <input type="checkbox"/> Pure <input checked="" type="checkbox"/> Mix <input type="checkbox"/> Solid <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas MSDS Submission MSDS File: Not Uploaded Upload MSDS file	Check all that apply: <input checked="" type="checkbox"/> Fire <input type="checkbox"/> Sudden Release of Pressure <input checked="" type="checkbox"/> Reactivity <input checked="" type="checkbox"/> Immediate (Acute) <input checked="" type="checkbox"/> Delayed (Chronic)	Maximum Daily Amount (lbs) (Facilitywide): <input type="text" value="187773"/> Maximum Daily Amount Code: <input type="text" value="05"/> Average Daily Amount (lbs) (Facilitywide): <input type="text" value="43488"/> Average Daily Amount Code: <input type="text" value="04"/> Number of days on site: <input type="text" value="23"/>	Storage Location information must be entered Container Type: <input type="text" value="Q"/> Pressure: <input type="text" value="1"/> Temperature: <input type="text" value="5"/> Location: <input type="text" value="YARD"/> More Storage Locations? More Storage Locations?

Save and Continue Exit Without Save

Error on page.

Start Internet 10:04 AM

Online Tier II Manager™ - Edit Chemical Mixtures - Microsoft Internet Explorer

Search	CAS	Chemical Name	EHS	EHS Name	%	
	8006619,86290-81-5	GASOLINE	<input type="checkbox"/>		25	Delet
	71432,72276-00-7	BENZENE	<input type="checkbox"/>		12	Delet
	7722-84-1	HYDROGEN PEROXIDE (52	<input checked="" type="checkbox"/>	HYDROGEN PEROXIDE (CONC. 8	33	Delet
	N/A	ORANGE FLAVORING	<input type="checkbox"/>		2	Delet
	20859-73-8	PHOSFUME	<input checked="" type="checkbox"/>	ALUMINUM PHOSPHIDE	14	Delet
	533-74-4	CRAG 85W	<input type="checkbox"/>		2	Delet
	21829-25-4	DIMETHYL 4-(O-NITROPHE	<input type="checkbox"/>		8	Delet
	2699-79-8	SULFURY FLUORIDE	<input type="checkbox"/>		1	Delet
	88-60-8	MONO-TERT-BUTYL-M-CRE	<input type="checkbox"/>		0.5	Delet
			<input type="checkbox"/>			Add

[Click here if you are done adding mixture components](#)

MIXTURE COMPONENTS

Done Internet 10:10 AM

TIER TWO REPORT

Online Tier II Manager™ - Chemical Lookup - Microsoft Internet Explorer

CAS Number: Search CAS

Chemical Name: Search Chemical

☒ Starting With ☐ Exact Phrase ☐ Containing String

The chemical list is for lookup purposes only. It is not a complete, verified chemical list. If you find a discrepancy between your data and the search results, please research further before certifying. Chemicals with the same CAS number may appear several times since they are known by several names.

SEARCH PROGRAM'S CHEMICAL LIST

Done Internet

Slide 6 of 11 Default Design

10:12 AM

Chemical Description	Physical and Health Hazards (check all that apply)
CAS N/A _____ Trade Secret [] Chem. Name BATTERY ACID _____ <input type="checkbox"/> Pure <input checked="" type="checkbox"/> Mix <input type="checkbox"/> Solid <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas <input checked="" type="checkbox"/> EHS EHS Name SULFURIC ACID _____ <u>*Significant Mixture Components</u>	<input type="checkbox"/> Fire <input type="checkbox"/> Sudden Release of Pressure <input checked="" type="checkbox"/> Reactivity <input checked="" type="checkbox"/> Immediate (Acute) <input checked="" type="checkbox"/> Delayed (Chronic)
CAS: 7664-9309 CAS: CAS:	Chem. Name: SULFURIC ACID Chem. Name: Chem. Name:

58

TIER TWO REPORT

Inventory			
1,200		Max Daily Amount in pounds	
0	3	Max Amount Code	
1,200		Avg. Daily Amount in pounds	
0	3	Ave Amount Code	
3	6	5	Days On site

Battery Acid = 1200 lbs
Sulfuric Acid = 33% of 1200 lbs = 400 lbs

*Significant Mixture Components			
CAS: 7664-9309	Chem. Name: SULFURIC ACID	33 %	EHS [X]
CAS:	Chem. Name:	%	EHS []
CAS:	Chem. Name:	%	EHS []

59

Report chemical groups when appropriate.

MSDS on Pg. 3-23 Paint lines added 7/26/06

Important: Read all instructions before completing form Reporting period from January 1 to December 31, 2006

Chemical Description	Physical and Health Hazards (check all that apply)	Inventory	Container Type	Pressure
CAS N/A _____ Trade Secret [] Chem. Name ENAMEL PAINT Check all that apply [] Pure [X]* Mix [] Solid [X] Liquid [] Gas [] EHS EHS Name _____	[X] Fire [] Sudden Release of Pressure [] Reactivity [X] Immediate (Acute) [X] Delayed (Chronic)	18,000 Max Daily Amount in pounds 0 4 Max Amount Code 12,000 Avg. Daily Amount in pounds 0 4 Ave Amount Code 1 6 0 Days On site	C	1

*Significant Mixture Components			
CAS: 64742-88-7	Chem. Name: MINERAL SPIRITS	19 %	EHS []
CAS: 471-34-1	Chem. Name: CALCIUM CARBONATE	25 %	EHS []
CAS:	Chem. Name:	%	EHS []

60

TIER TWO REPORT

TIER TWO

CONFIDENTIAL STORAGE

- **Online:** Check box that says "Confidential"
- **Paper copy:** submit *new* Confidential Location Information Sheet along with the Tier Two that has all information except confidential storage codes and locations

61

Online Tier II Manager™ - Show Facility Tree - Microsoft Internet Explorer

File Edit View Favorites Tools

Back Forward Stop Home Reload

Address http://209.178.232.229/t2

Go Links

Rows per page 10

Attachments:

Attachment	File Name	Browse File to Upload	Add / Update	Remove
Siteplan	Sample.jpg	<input type="text"/> Browse...	<input type="button" value="Attach"/>	<input type="button" value="Remove"/>
Site coordinate abbreviations		<input type="text"/> Browse...	<input type="button" value="Attach"/>	<input type="button" value="Remove"/>
Safeguard measures		<input type="text"/> Browse...	<input type="button" value="Attach"/>	<input type="button" value="Remove"/>
Emergency Response Plan		<input type="text"/> Browse...	<input type="button" value="Attach"/>	<input type="button" value="Remove"/>

To attach a file, click on Browse, choose the location of the file, click Open. The name of the file will appear. Then click Attach. The document format will appear underlined. To remove a file, click Remove.

☐ Check this if you are sending these files as hard copies.

Notes Edit

not required to report - transportation exemption
2005 edit to upload MSDS for sludge.

This report will be reviewed by the State officials. You may be contacted about this submission.

TIER TWO REPORT

Online Tier II Manager™ - Show Facility Tree - Microsoft Internet Explorer

SUBMIT TIER TWO FROM FACILITY HOME PAGE

Address: http://209.178.232.229/t2mi/SUBMIT/T2_ShowFCLTree.asp?FID=4&backyear=2006

Facility Home Page for cnr saginaw terminal (ID:4)

Reporting Year: 2006

cnr saginaw terminal, Canadian National Railways
2205 N. MICHIGAN
Saginaw, MI 48602
Phone: 989-338-5555

[Edit Facility](#) [Delete Facility](#)

[312 \(Tier II\)](#) | [Submissions Listing](#) | [302](#) | [311](#)

312 (Tier II)

Last Update: 11/6/2006 2:34:45 PM
Last Tier II Submission:

[Current Data](#)

Tier II Submissions

[Click here](#) to start/change your Tier II Submission for this year.

You have not made any submissions for the year 2006.

Chemicals:

Click on table header to sort and filter selections.

[1] Page 1 of 1 (Total Results:5)

ID	CAS	Chemical Name(Click to View MSDS)	EHS	Exceeds TPQ	Edit	Delete
8	7664-41-7	AMMONIA (ANHYDROUS)	<input checked="" type="checkbox"/>	Yes	Edit	Delete

Online Tier II Manager™ - Microsoft Internet Explorer

YOU MAY EDIT A SUBMITTED REPORT ONLY AFTER ALL ANNUAL REPORTS HAVE BEEN PROCESSED AND THE ADMINISTRATOR HAS GIVEN APPROVAL

Address: http://209.178.232.229/t2mi/SUBMIT/T2_ShowFCLTree.asp?FID=4&backyear=2006

Tier II Submission Instructions

Starting the Tier II Submission process means that you will be starting the process of submitting the final report to authorities.

Once you start this submission process, you will NOT be able to edit this report.

You should only start the Tier II Submission process if you have updated all other information in your report.

- Have you updated your facility contact information?
- Have you updated your chemical inventory?
- Have you uploaded all the attachments you want to submit?

Make all data updates from the Facility Home page, and then start the report submission process.

[Facility Home Page](#) [Continue with Tier II Submission](#)

TIER TWO REPORT

**TOP OF "SUBMISSIONS LISTING" PAGE -
REQUEST TO EDIT A PREVIOUS YEAR'S TIER TWO REPORT**

Online Tier II Manager™ - Tier II Submission List - Microsoft Internet Explorer

[User: Susan1234] Sign Out FID: 4 Reporting Year: 2005 Main Menu | Instructions | Hard Copy Mailing List | Resources | State Website | Feed

Submissions Listing for cnr saginaw terminal (ID: 4)

312 (Tier II)

Shown below is a listing of all Tier II Report submissions. Click on the reporting year to edit the Report for that year. The link in the Reporting Year column will be enabled if you can edit the data for that year.

Reporting Year	Submission Class	Signed By	Signed Date	Submission Status	Tier II	Submission Type	Export to Tier II Submit
2006 [Edit]				Not Started			
2005 [Edit] [Close]	Annual	john submit, emergency coordinator	10/23/2006 11:04:02 AM	Pending Admin Approval	<input checked="" type="checkbox"/>	Online	

[Click here](#) to request an edit for a Previous Reporting Year.

302 Reports

javascript:PreviewT2('4','890239126','2005','_ARCHIVE','5');

Internet 9:36 AM

**BOTTOM OF "SUBMISSIONS LISTING" PAGE -
IF SUBJECT TO 302, EDIT EMERGENCY COORDINATOR CONTACT DETAILS FIRST.**

Online Tier II Manager™ - Tier II Submission List - Microsoft Internet Explorer

Address http://209.

2006
[Edit]

2005
[Edit] [Close]

Annual john submit, emergency coordinator 10/23/2006 11:04:02 AM Pending Admin Approval ☒ Online

[Click here](#) to request an edit for a Previous Reporting Year.

302 Reports

Edit Emergency Coordinator Contact Details New 302

ID	Initiated Date	Certified Date	View	Edit	Delete
14	10/31/2006	Certify	View	Edit	Delete
5	10/23/2006 11:04:02 AM	10/23/2006 11:46:22 AM	View		

311 Reports

New 311

ID	Initiated Date	Certified Date	View	Edit	Delete
6	11/8/2006 3:08:55 PM	Certify	View	Edit	Delete

Internet 9:38 AM

TIER TWO REPORT

Online Tier II Manager™ - Add Edit 302 Emergency Contact Details - Microsoft Internet Explorer

Address: http://209.178.232.229/t2m/SUBMIT/addEdit302EC_Details.asp?fid=4&action=Edit

Michigan Department of Environmental Quality SARA Title III Program
Phone: 517-373-8481

Online Tier II Reporting System
Developed by IDSIGIS

[User: Susan1234] Sign Out FID:4 Reporting Year: 2005 Main Menu | Instructions | Hard Copy Mailing List | Resources | State Website | Feed

302 Emergency Coordinator Contact Details

[Submission Listing](#)

Facility Emergency Coordinator

Name: Mr train Man Title: 302 emerg contact

Phone: 9892225555 24 Hr Phone: 9894441111 Pager:

Address: 12434 Main st City: Saginaw

State: Michigan Zip: 49098

Email: trainman@test.com Retype Email: trainman@test.com

[Save and Continue](#) [Exit Without Save](#)

[Submission Listing](#)

Online Tier II Manager™ - Tier II Submission List - Microsoft Internet Explorer

Address: http://209.178.232.229/t2m/SUBMIT/submissionList.asp

BOTTOM OF "SUBMISSIONS LISTING" PAGE - EDIT 302 REPORT

2006	[Edit]				Not Started			
2005	[Edit] [Close]	Annual	john submit, emergency coordinator	10/23/2006 11:04:02 AM	Pending Admin Approval		Online	

[Click here to request an edit for a Previous Reporting Year.](#)

302 Reports

[Edit Emergency Coordinator Contact Details](#) [New 302](#)

ID	Initiated Date	Certified Date	View	Edit	Delete
14	10/31/2006		Certify	View	Delete
5	10/23/2006 11:04:02 AM	10/23/2006 11:46:22 AM	View		

311 Reports

[New 311](#)

ID	Initiated Date	Certified Date	View	Edit	Delete
6	11/8/2006 3:08:55 PM		Certify	View	Delete

TIER TWO REPORT

Online Tier II Manager™ - Add Edit 302 - Microsoft Internet Explorer

302 REPORT

Address: http://209.178.232.229/kt2mi/SUBMIT/addEdit302.asp?id=14&action=edit

Emergency Coordinator

Mr train Man Title: 302 emerg contact
 9892225555 24 Hr Phone: 9894441111 Pager:
 12434 Main st City: Saginaw
 Michigan Zip: 49098
 trainman@test.com Retype Email: trainman@test.com

Date : 10/31/2006

Chemical Information

Search By CAS/Chemical Name	CAS	Chemical Name	EHS Name	Actual Qty (lbs)	
	N/A	BATTERY ACID	Sulfuric acid	20000	Delete
	7664-41-7	AMMONIA (ANHYDROUS)	AMMONIA (ANHYDROUS)	50000	Delete
	7664-93-9	SULFURIC ACID	SULFURIC ACID	600	Delete
				0	Add

Click Chemical from Tier II lookup will only return chemicals existing in the current Tier II data identified as Extremely Hazardous (EHS) with a quantity above its Threshold Planning Quantity (TPQ).

Save and Continue Exit Without Save

Online Tier II Manager™ - Tier II Submission List - Microsoft Internet Explorer

BOTTOM OF "SUBMISSIONS LISTING" PAGE - ADD/EDIT 311 REPORT

Address: http://209.178.232.229/kt2mi/SUBMIT/submissionList.asp

ID	Initiated Date	Certified Date	View	Edit	Delete
2006					
2005	Annual	john submit, emergency coordinator	10/23/2006 11:04:02 AM	Pending Admin Approval	Online

[Click here](#) to request an edit for a Previous Reporting Year.

302 Reports

Edit Emergency Coordinator Contact Details New 302

ID	Initiated Date	Certified Date	View	Edit	Delete
14	10/31/2006		Certify	View	Edit
5	10/23/2006 11:04:02 AM	10/23/2006 11:46:22 AM	View		

311 Reports

New 311

ID	Initiated Date	Certified Date	View	Edit	Delete
6	11/8/2006 3:08:55 PM		Certify	View	Edit

TIER TWO REPORT

Online Tier II Manager™ - Add Edit 311 - Microsoft Internet Explorer

311 REPORT

Address: http://209.178.232.229/t2m/SUBMIT/addEdit311.asp?id=7&action=edit

Phone: 517-373-8481

Developed by IDSIGIS

[User: Susan1234] Sign Out Reporting Year: 2005 Main Menu | Instructions | Hard Copy Mailing List | Resources | State Website | Feedback | Help | Report

Edit 311 Report (ID:7)

[Submission Listing](#)

A 311 requires facilities that have MSDSs for chemicals held above certain quantities to submit either copies of their MSDSs or a list of MSDS chemicals to SERC, LEPC, and local fire department.

Make sure you certify the report after completing the information below.

Is this an Initial Submission or an Update? ☐ Initial ☒ Update

Chemical Information

Chemical	Search By CAS/Chemical Name	Threshold Exceed Date	CAS	Chemical Name	Fire Hazard	Sudden Release of Pressure	Reactivity	Immediate (Acute)	Delayed (Chronic)	
		11/24/2006	7697-37-2	Nitric acid	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Delete
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Add

Select Chemical from Tier II lookup will only return chemicals existing in the current Tier II data.

Save and Continue Exit Without Save

Done Internet

Start 3:31 PM

Online Tier II Manager™ - Certify 311 - Microsoft Internet Explorer

ALL REPORTS MUST BE CERTIFIED

Address: http://209.178.232.229/t2m/SUBMIT/addEdit311.asp?id=7&action=edit

Phone: 517-373-8481

Developed by IDSIGIS

[User: Susan1234] Sign Out FID:4 Reporting Year: 2006 Main Menu | Instructions | Hard Copy Mailing List | Resources | State Website | Feedback | Help | Report

311 REPORT CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted, and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Please Preview the 311 Report before Certifying

☐ I acknowledge that the information contained within the 311 Report is accurate and true.

Name of Owner/Operator or Authorized Representative:

Official Title:

Date: 12/18/2006

Reset Form Save and Continue Exit Without Save

Done Internet

Start 10:41 AM

TIER TWO REPORT

ONLINE REPORTING

ADVANTAGES OF TIER II MANAGER™

- Know what has been entered
- Data checks – fewer errors
- Resources (chemical lists, lat-long determination, web links...)
- Update anytime (submit when due)
- Add notes to your report
- Emergency Planners have better information

73

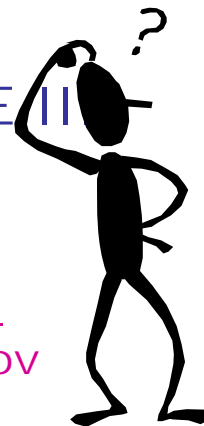
TIER TWO REPORT

QUESTIONS?

MICHIGAN SARA TITLE II
PROGRAM

517-373-8481

WWW.michigan.gov/deqsara
deq-ead-sara@michigan.gov



74